

Intel[®] Omni-Path Fabric Firmware Tools

Release Notes for 10.9.0.1

Rev. 1.0

January 2019



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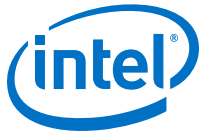
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1.0 Overview of the Release

This document provides a brief overview of the changes introduced into the Intel® Omni-Path Firmware Tools (FW Tools) by this release. Intel® Omni-Path FW Tools is used for the hardware listed in [Table 3](#) on page 7.

The information contained in this document is intended as supplemental information only; it should be used in conjunction with the documentation provided for each component.

These Release Notes list the features supported in this release, open issues, and issues that were resolved during release development.

1.1 Audience

The information provided in this document is intended for installers, software support engineers, service personnel, and system administrators.

1.2 Document Versions

The following table lists the end user document versions supported by this release.

Table 1. Supported Document Versions

| Title | Doc. Number | Revision |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| <i>Intel® Omni-Path Fabric Quick Start Guide</i> | J57479 | 6.0 |
| <i>Intel® Omni-Path Fabric Setup Guide</i> | J27600 | 10.0 |
| <i>Intel® Omni-Path Fabric Switches Hardware Installation Guide</i> | H76456 | 7.0 |
| <i>Intel® Omni-Path Host Fabric Interface Installation Guide</i> | H76466 | 5.0 |
| <i>Intel® Omni-Path Fabric Software Installation Guide</i> | H76467 | 11.0 |
| <i>Intel® Omni-Path Fabric Switches GUI User Guide</i> | H76457 | 10.0 |
| <i>Intel® Omni-Path Fabric Switches Command Line Interface Reference Guide</i> | H76458 | 10.0 |
| <i>Intel® Omni-Path Fabric Suite FastFabric User Guide</i> | H76469 | 11.0 |
| <i>Intel® Omni-Path Fabric Suite Fabric Manager User Guide</i> | H76468 | 11.0 |
| <i>Intel® Omni-Path Fabric Suite Fabric Manager GUI User Guide</i> | H76471 | 11.0 |
| <i>Intel® Omni-Path Fabric Host Software User Guide</i> | H76470 | 11.0 |
| <i>Intel® Performance Scaled Messaging 2 (PSM2) Programmer's Guide</i> | H76473 | 11.0 |
| <i>Intel® Omni-Path Fabric Performance Tuning User Guide</i> | H93143 | 13.0 |
| <i>Intel® Omni-Path IP and LNet Router Design Guide</i> (Old title: <i>Intel® Omni-Path IP and Storage Router Design Guide</i>) | H99668 | 8.0 |
| <i>continued...</i> | | |



| Title | Doc. Number | Revision |
|------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| <i>Building Containers for Intel® Omni-Path Fabrics using Docker* and Singularity* Application Note</i> | J57474 | 6.0 |
| <i>Intel® Omni-Path Management API Programmer's Guide</i> | J68876 | 4.0 |
| <i>Configuring Non-Volatile Memory Express* (NVMe*) over Fabrics on Intel® Omni-Path Architecture Application Note</i> | J78967 | 1.0 |
| <i>Intel® Omni-Path Fabric Software Release Notes</i> | K38338 | 1.0 |
| <i>Intel® Omni-Path Fabric Manager GUI Release Notes</i> | K38339 | 1.0 |
| <i>Intel® Omni-Path Fabric Switches Release Notes (includes managed and externally-managed switches)</i> | K38337 | 1.0 |
| <i>Intel® Omni-Path Fabric Unified Extensible Firmware Interface (UEFI) Release Notes</i> | K38340 | 1.0 |
| <i>Intel® Omni-Path Fabric Thermal Management Microchip (TMM) Release Notes</i> | K38341 | 1.0 |
| <i>Intel® Omni-Path Fabric Firmware Tools Release Notes</i> | K38342 | 1.0 |

1.3 Software License Agreement

This software is provided under license agreements and may contain third-party software under separate third-party licensing. Please refer to the license files provided with the software for specific details.

1.4 If You Need Help

Technical support for Intel® Omni-Path products is available 24 hours a day, 365 days a year. Please contact Intel Customer Support or visit <http://www.intel.com/omnipath/support> for additional detail.

1.5 Supported Features

- The list of supported hardware is in [Table 3](#) on page 7
- Contains tools to manage and update UEFI and TMM firmware
- New packaging: the Firmware Tools file is now delivered in a single RPM that is compatible with all supported operating systems

1.6 Firmware Files

This release contains the firmware files listed in the table below.

Table 2. Firmware Files

| Description | File Name | Version |
|----------------|-------------------------------------------|------------|
| Firmware Tools | hfi1-firmware-tools-10.9.0.1-4.x86_64.rpm | 10.9.0.1.4 |

1.7 Intel Hardware

The following table lists the Intel hardware supported in this release. The table does not include OEM-specific hardware, such as custom adapters and switches.



Note: The Intel® PSM2 implementation has a limit of four (4) HFIs.

Table 3. Supported Hardware

| Hardware | Description |
|--------------------------------------------------------|-----------------------------------------|
| Intel® Xeon® Processor E5-2600 v3 product family | Haswell CPU-based servers |
| Intel® Xeon® Processor E5-2600 v4 product family | Broadwell CPU-based servers |
| Intel® Xeon® Scalable Processors | Skylake CPU-based servers |
| Next Generation Intel® Xeon® Scalable Processors | Cascade Lake CPU-based servers |
| Intel® Xeon Phi™ x200 Product Family | Knights Landing CPU-based servers |
| Intel® Xeon Phi™ 72x5 Processor Family | Knights Mill CPU-based servers |
| Intel® Omni-Path Host Fabric Interface 100HFA016 (x16) | Single Port Host Fabric Interface (HFI) |
| Intel® Omni-Path Host Fabric Interface 100HFA018 (x8) | Single Port Host Fabric Interface (HFI) |

1.8 Installation Requirements

1.8.1 Installation Instructions

For installation details, refer to the *Intel® Omni-Path Fabric Software Installation Guide*.

1.8.1.1 Download the Firmware

Download the firmware rpms from an Intel web page or other Intel secured location using the following procedures.

- Using a web browser, go to <https://downloadcenter.intel.com/search?keyword=Omni-Path>.

Notes: You can manually navigate to the software using the following steps:

- Using a web browser, type `downloadcenter.intel.com` in the address field and press **Enter**.
 - In the "Search downloads" field, type `Omni-Path` and press **Enter**.
- In the Description list, select the Intel® Omni-Path Host Fabric Interface Platform Firmware file (i.e., UEFI, TMM or FW Tools) for the version you want to install.
Note: The latest version of each type of each download type is showing in the list. To show previous versions, select "Show more" at the bottom of the list.
 - In the "Available Downloads" list, select the files you need.
 - Review the Intel Software License Agreement.
 - Click "I accept the terms in the license agreement."
 - Save the download to your hard drive.

1.8.1.2 Installing and Upgrading rpms

This section provides information for installing or upgrading firmware rpms.

- To install the rpms, use `rpm -ivh <rpm name>`.



- To upgrade the rpms, use `rpm -Uvh <rpm name>`.

Important Information for Firmware Tools

- When trying to install `hfil-firmware-tools.rpm` on OPA-IFS prior to V10.7, the installation fails due to an existing version of these firmware tools owned by other rpms.

To resolve this issue, you can safely force the installation of the rpm using the following command:

```
rpm -ivh --force hfil-firmware-tools-<version>.rpm
```

- When trying to install a pre-10.7 version of OPA-IFS on systems where the `hfil-firmware-tools.rpm` is already installed, the `hfil-diagtools-sw` and `opa-basic-tools` will fail to install due to existing versions owned by the `hfil-firmware-tools`.

To resolve this issue, you can

- Uninstall the existing `hfil-firmware-tools.rpm` prior to the OPA-IFS installation.
- If desired, you can safely force the installation of the rpm using the following command:

```
rpm -ivh --force hfil-firmware-tools-<version>.rpm
```

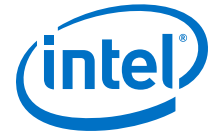
1.9 Product Constraints

- None.

1.10 Product Limitations

This release has the following product limitations:

- None.



2.0 Issues

This section lists the resolved and open issues in the Intel® Omni-Path FW Tools.

2.1 Resolved Issues

2.1.1 Issues Resolved in this Release

None.

2.2 Open Issues

None.